



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/724,322	11/28/2000	Fritz R. Paul	TSP-3.2.003/3688	6478
26345	7590	06/03/2004	EXAMINER	
GIBBONS, DEL DEO, DOLAN, GRIFFINGER & VECCHIONE 1 RIVERFRONT PLAZA NEWARK, NJ 07102-5497			NGUYEN, SIMON	
			ART UNIT	PAPER NUMBER
			2685	9

DATE MAILED: 06/03/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/724,322

Applicant(s)

PAUL ET AL.

Examiner

SIMON D NGUYEN

Art Unit

2685

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 12 May 2004.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-18 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1-18 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 09 April 2001 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☐ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
 2. ☐ Certified copies of the priority documents have been received in Application No. _____.
 3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152) |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claims 1-11 are rejected under 35 U.S.C. 102(b) as being anticipated by Lu et al. (5,953,651).

Regarding claim 1, Lu discloses a method for integrating a fixed terminal (330) in a mobile telecommunication network (CAS (300) of fig. 4 wherein the CAS is a cellular network which considered as a mobile network)) for handling call between fixed terminals and mobile terminals (#370, 372, 374), comprising: connecting the fixed terminals via fixed lines (#340) to an interface unit (#250) for the mobile network (300 of fig.4); providing a register for storing subscriber information (#254); storing, access information specifying predefined access types; and controlling the call handling on the basis of the stored access information (column 7 lines 14-43, column 10 line 36 to column 11 line 57).

Regarding claim 11, this claim is rejected for the same reason as set forth in claim 1.

Regarding claim 2, Lu further discloses the register is in a database (HLR 254) in which each access is represented by an identifier and the associated subscriber

Art Unit: 2685

information and access types information includes a reference (fig.3, column 9 line 65 to column 10 line 26).

Regarding claim 3, Lu further discloses a service profile, an identifier and the access type (fig.3, column 9 line 65 to column 10 line 26).

Regarding claim 4, Lu further discloses the steps of: checking by reference to the access information for terminating calls in one of multiplicity of accesses links; retrieving address information (loading profile data); and offering the connection (fig.3, column 9 line 65 to column 10 line 26).

Regarding claim 5, Lu discloses that when the system comprising a central database (CAS HLR) (column 9 lines 65-67); a local exchange carrier (CO) (column 9 line 4-45) wherein the subscriber's profile is stored at the central database (column 10 lines 1-26, fig.3) wherein the terminal access to the mobile network via the local node wherein each location node having a VLR (figs.1-6, column 29 line 58). It should be noted that the HLR is considered as a central database, when a mobile unit moves to other location, it has to register to that location (VLR) and any information in the HLR can be sent to the VLR if requesting by a visited MSC which is known to those skilled in the art.

Regarding claim 6, Lu discloses the steps of obtaining an access indicator associated with address from the local register (column 29 line 58); sending to the central register (CAS HLR) a query including the access indicator and a parameter indicating that there are other accesses linked to that access and retrieving the address information associated with the linked accesses from the central register (figs.3, 5-6). It

Art Unit: 2685

should be noted that the HLR is considered as a central database, when a mobile unit moves to other location, it has to register to that location (VLR) and any information in the HLR can be sent to the VLR if requesting by a visited MSC which is known to those skilled in the art.

Regarding claim 7, Lu discloses the system using two identifiers (IMSI and TMSI) (column 20 line 37, fig.3, column 12 line1), an ISDN (column 20 line 39).

Regarding claims 8-9, Lu discloses the integrated wireline/wireless system in which the mobile or fixed terminals can be accessed to each other (point-to-point) or each one can accessed to a plurality of other device (point-to-multipoint) (figs.1-4).

Regarding claim 10, Lu further discloses the step of storing, extracting (retrieving) the access information from the directory database, and wherein the directory numbers are checked, validated (figs.3-4, columns 10-11, column 12 lines 3-31)

3. Claims 1,11 are rejected under 35 U.S.C. 102(e) as being anticipated by Waugh et al. (6,324,402).

The applied reference has a common assignee with the instant application. Based upon the earlier effective U.S. filing date of the reference, it constitutes prior art under 35 U.S.C. 102(e). This rejection under 35 U.S.C. 102(e) might be overcome either by a showing under 37 CFR 1.132 that any invention disclosed but not claimed in the reference was derived from the inventor of this application and is thus not the invention "by another," or by an appropriate showing under 37 CFR 1.131.

Art Unit: 2685

Regarding claims 1 and 11, Waugh discloses a mobile communication network for connecting between fixed terminals and mobile terminal wherein the network is a GSM support an ISDN BRI (figs.1-2) wherein the fixed terminal integrated in a mobile network (fig.2) and wherein the network discloses limitations as claimed (columns 5, 7, 15-16).

Claim Rejections - 35 USC § 103

4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

5. Claims 12-18 are rejected under 35 U.S.C. 103(a) as being unpatentable over Lu et al. (5,953,651) in view of Waugh et al. (6,324,402).

Regarding claims 12-16, Lu further discloses a switched node type network and a HLR (figs. 1-2, 4), wherein the interface unit is connected to one towards the side of the node, a subsystem for wireless communication with mobile terminals (figs.1, 4), and a VLR (column 20 line 58) and wherein the system is a GSM (column 4 line 25). However, Lu does not specifically disclose the interface unit connected to a GMSC.

Waugh discloses an integrated wireline/wireless system in which a network is a GSM (column 5 line 42), wherein the interface unit connected to a GMSC, MSC, HLR, and a VLR (column 5 line 26 to column 6 line 12). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have Lu, modified

Art Unit: 2685

by Waugh in order to provide a combination of a plurality of different access services with different networks in one system.

Regarding claims 17-18, Lu further discloses the fixed terminal is of a type of ISDN BRI (column 20 line 39) wherein the access needs two identifiers (column 12 lines 1-2). However, Lu does not specifically disclose the fixed terminal using two ISDN BRI channels connected to a GMSC.

Waugh discloses an integrated wireline/wireless network in which the system uses two ISDN BRI channels (B and D channels) (column 22 lines 51-67), this access is in the HLR by two linked subscriber identifiers (column 6 lines 36-57) and the interface unit is arranged to change the association between the two identifiers and the two BRI channels which connect the interface unit to the GMSC and the fixed terminal (fig.1, column 5 line 36 to column 6 line 57, column 8 lines 24-67). Therefore, it would have been obvious to one skilled in the art at the time the invention was made to have Lu, modified by Waugh to provide the system with a high data rate in order to improve the system access performance.

Conclusion

6. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Widergen (5,890,064) discloses a wireless integrated network (PLMN) to connect between fixed terminals (128, 130) to mobile terminal (116,m 118, 120 fig.1) wherein the network is a GSM supporting an ISDN BRI (column 5 line 15) having a HLR as a central database, a VLR (figs. 1-4, column 3 line 59 to column 17).

Response to Arguments

7. Applicant's arguments with respect to claims 1-18 have been considered but are moot in view of the new ground(s) of rejection.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Simon Nguyen whose telephone number is (703) 308-

Art Unit: 2685

1116. The examiner can normally be reached on Monday-Friday from 7:00 AM to 4:00PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Edward F. Urban, can be reached on (703) 305-4385.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the Group receptionist whose telephone number is (703) 306-0377.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C. 20231

Or faxed to:

(703) 872-9314, (for formal communications intended for entry)

Hand-delivered response should be brought to Crystal Park II,
2121 Crystal Drive, Arlington, VA, Sixth Floor (Receptionist).

Simon Nguyen

May 26, 2004

A handwritten signature in black ink, appearing to read "Simon Nguyen", with a stylized flourish at the end.